

CLAIMS

What Is Claimed Is:

- 1    1.    A mobile conveyor system for stacking aggregate comprising:  
2                 a mobile belt conveyor module mounted for movement with respect to the ground  
3                 on steerable rolling stock;  
4                 a mobile tripper module mounted for movement with respect to the ground on  
5                 steering rolling stock, the tripper module being fed aggregate by the mobile belt conveyor  
6                 module; and  
7                 a stacker receiving aggregate from the tripper module and stacking the aggregate to  
8                 lift level.
- 1    2.    The mobile conveyor system of Claim 1, further comprising:  
2                 a second mobile belt conveyor module mounted for movement with respect to the  
3                 ground on steerable rolling stock, the second mobile belt conveyor module receiving  
4                 aggregate from the tripper conveyor module and feeding aggregate to the stacker.
- 1    3.    The mobile conveyor system of Claim 1 wherein said mobile belt conveyor module  
2                 comprises:  
3                 a span of a certain length;  
4                 a receiving hopper at one end of the span;  
5                 a discharge chute at the other end of the span; and  
6                 crawler tracks supporting the span, the crawler tracks being steerable.
- 1    4.    The mobile conveyor system of Claim 3 wherein the crawler tracks are steerable  
2                 through one hundred and eighty degrees.

1    5.    The mobile conveyor system of Claim 4 wherein the mobile belt conveyor module  
2    is about two hundred and fifty feet from receiving hopper to discharge chute.

1    6.    The mobile conveyor system of Claim 3 further comprising a power unit for driving  
2    the crawler tracks.

1    7.    The mobile conveyor system of Claim 1 wherein said mobile tripper module  
2    comprises:

3         a span of a certain length;  
4         a receiving hopper at one end of the span; and  
5         a discharge chute at the other end of the span; and  
6         crawler tracks supporting the span, the crawler tracks being steerable.

1    8.    The mobile conveyor system of Claim 7 wherein the crawler tracks are steerable  
2    through one hundred and eighty degrees.

1    9.    The mobile conveyor system of Claim 8 wherein the mobile tripper module is about  
2    three hundred feet from the receiving hopper to the discharge chute.

1    10.   A mobile conveyor system for stacking aggregate, comprising:  
2         a mobile tripper module mounted for movement with respect to the ground on  
3         steerable rolling stock;  
4         a stacker being fed aggregate by the mobile tripper module; and  
5         a bridge stacker mounted for movement with respect to the ground, the bridge  
6         stacker being fed aggregate by the mobile tripper module.

1    11.   The mobile conveyor system of Claim 10, further comprising:

2           a mobile belt conveyor module mounted for movement with respect to the ground  
3       on steerable rolling stock, the mobile belt conveyor module feeding aggregate to the mobile  
4       tipper module.

1     12.   The mobile conveyor system of Claim 10 wherein the mobile tripper module  
2       comprises:

3           a span of a certain length;  
4           a receiving hopper at one end of the span;  
5           a discharge chute at the other end of the span; and  
6           crawler tracks supporting the span, the crawler tracks being steerable.

1     13.   The mobile conveyor system of Claim 12 wherein the crawler tracks are steerable  
2       through one hundred and eighty degrees.

1     14.   The mobile conveyor system of Claim 13 wherein the mobile tripper module is  
2       about three hundred feet from the receiving hopper to the discharge chute.

1     15.   The mobile conveyor system of Claim 11 wherein said mobile belt conveyor  
2       module comprises:

3           a span of a certain length;  
4           a receiving hopper at one end of the span;  
5           a discharge chute at the other end of the span; and  
6           crawler tracks supporting the span, the crawler tracks being steerable.

1     16.   The mobile conveyor system of Claim 15 wherein the crawler tracks are steerable  
2       through one hundred and eighty degrees.

1    17.    The mobile conveyor system of Claim 16 wherein the mobile belt conveyor module  
2    is about two hundred and fifty feet from receiving hopper to discharge chute.

1    18.    The mobile conveyor system of Claim 15 further comprising a power unit for  
2    driving the crawler tracks.

1    19.    A mobile conveyor system for stacking aggregate comprising:  
2                 a mobile tripper module mounting for movement with respect to the ground on  
3                 steerable rolling stock;  
4                 a bridge stacker aligned with respect to the mobile tripper module to receive  
5                 aggregate from the tripper module; and  
6                 a first mobile belt conveyor module mounted for movement with respect to the  
7                 ground on steerable rolling stock, the first mobile belt conveyor module feeding aggregate  
8                 to the mobile tripper module.

1    20.    The mobile conveyor system of Claim 19 further comprising a plurality of mobile  
2    belt conveyor modules mounted for movement with respect to the ground on steerable  
3    rolling stock, the plurality of belt conveyor modules aligned to feed aggregate along their  
4    length to the next succeeding belt conveyor module and to the first mobile belt conveyor  
5    module.

1    21.    The mobile conveyor system of Claim 19 further comprising:  
2                 a second mobile belt conveyor module mounted for movement with respect to the  
3                 ground on steerable rolling stock, the second mobile belt conveyor module receiving  
4                 aggregate from the mobile tripper module; and  
5                 a stacker being fed aggregate by the second mobile belt conveyor module.

1    22.    The mobile conveyor system of Claim 21 further comprising a plurality of mobile  
2    belt conveyor modules mounted for movement with respect to the ground on steerable  
3    rolling stock, the plurality of belt conveyor modules aligned to feed aggregate along their  
4    length to the next succeeding belt conveyor module and to the first mobile belt conveyor  
5    module.

1    23.    The mobile conveyor system of Claim 21 wherein each one of the mobile belt  
2    conveyor modules comprises:

3         a span of a certain length;  
4         a receiving hopper at one end of the span;  
5         a discharge chute at the other end of the span; and  
6         crawler tracks supporting the span, the crawler tracks being steerable.

1    24.    The mobile conveyor system of Claim 23 wherein the crawler tracks are  
2    steerable through one hundred and eighty degrees.

1    25.    The mobile conveyor system of Claim 24 wherein each mobile belt conveyor  
2    module is about two hundred and fifty feet from receiving hopper to discharge chute.

1    26.    The mobile conveyor system of Claim 25 wherein each mobile belt conveyor  
2    further comprises a power unit for driving the crawler tracks.

1    27.    The mobile belt conveyor system of Claim 26 wherein said mobile tripper  
2    module comprises:  
3         a span of a certain length;  
4         a receiving hopper at one end of the span;

5           a discharge chute at the other end of the span; and  
6           crawler tracks supporting the span, the crawler tracks being steerable.

1   28.   The mobile conveyor system of Claim 27 wherein the crawler tracks of the  
2   mobile tripper module are steerable through one hundred and eighty degrees.

1   29.   The mobile conveyor system of Claim 28 wherein the mobile tripper module is  
2   about three hundred feet from receiving hopper to the discharge chute.

1   30.   A method for multiple lift stacking of aggregate, the steps of the method  
2   comprising:  
3        advance stacking a berm for conveyor system travel;  
4        advance stacking the extension phase in conjunction with the berm stacking;  
5   and  
6        advance stacking the retraction phase.

1   31.   The method of Claim 30 further comprising:  
2        retreat stacking a second lift extension phase creating a corridor;  
3        retreat stacking a second lift retraction phase; and  
4        stacking the corridor in conjunction with stacking the retraction phase.

1   32.   The method of Claim 30 wherein the berm is stacked by a radial stacker.

1   33.   The method of Claim 30 wherein the extension phase is stacked by a bridge  
2   stacker.

- 1    34.    The method of Claim 31 wherein the second lift retreat stacking phase is  
2    stacked by a bridge stacker.
- 1    35.    The method of Claim 31 wherein the second lift corridor is stacked by a radial  
2    stacker.
- 1    36.    A method for stacking aggregate, the steps of the method comprising:  
2        stacking one half of a site creating a corridor;  
3        stacking the other half of the site; and  
4        stacking the corridor in conjunction with stacking the other half of the site.
- 1    37.    The method of Claim 36 wherein the one half and other half of a site is stacked  
2    by a bridge stacker.
- 1    38.    The method of Claim 36 wherein the corridor is stacked by a radial stacker.
- 1    39.    A method for multiple lift stacking of aggregate, the steps of the method  
2    comprising:  
3        advance and retreat stacking the extension phase creating a corridor;  
4        advance and retreat stacking the retraction phase; and  
5        stacking the corridor.
- 1    40.    The method of Claim 39 further comprising stacking a berm in conjunction  
2    with the extension phase.
- 1    41.    The method of Claim 39 wherein the corridor is stacked in conjunction with the  
2    retraction phase.

1    42.    The method of Claim 39 further comprising repeating the steps of Claim 39 on  
2    a second adjacent site.

1    43.    The method of Claim 42 further comprising repeating the steps of Claim 39 on  
2    a third adjacent site.

1    44.    The method of Claim 43 further comprising repeating the steps of Claim 39 as  
2    a second lift on top of the adjacent sites.

1    45.    The method of Claim 44 further comprising repeating the steps of Claim 39 as  
2    a third lift.

1    46.    The method of Claim 44 further comprising the step of building an equipment  
2    corridor to the top of the second lift.